

RELY ON EXCELLENCE

HSH-D

Mechanical Seals | Agitator seals | Liquid lubricated seals



Features

- For top entry drives
- Double seal
- Balanced
- Independent of direction of rotation
- Multiple springs rotating
- Liquid-lubricated
- Cartridge unit

Notes

Options:

- Cooling resp. heating flange
- Leakage drain
- Flush
- Polymerization barrier

Advantages

- Ready-to-fit and factory-tested unit
- With or without bearing available
- Patented hydrodynamic grooves
- Designed for high pressure range
- Connection dimensions to customers' requirements
- ATEX certification on request

Operating range

Shaft diameter:

d1 = 20 ... 500 mm (0.79" ... 19.69")

Pressure:

p1 = vacuum ... 250 bar (... 3,625 PSI)*,

p3 = p1 +10 %

Temperature:

t1 = -40 °C... +200 (350**) °C

(-40 °F ... +392 (662**) °F)

Sliding velocity:

vg = 0 ... 5 m/s (0 ... 16 ft/s)

* Depending on size, from 100 ... 150 bar (1,450 ... 2,175 PSI) executed as tandem seal (pressure reduction in 2 stages).

** with cooling flange

! It should be noted that the extremal values of each operating parameter cannot be applied at the same time because of their interaction.

Materials

Seal faces: Carbon graphite

Seats: Silicon carbide, FDA conform

Secondary seals and metallic parts acc. to application and customers' requirement.

Standards and approvals

- FDA

Recommended applications

- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Reactors
- Agitators
- Special rotating equipment with top entry drive

Recommended piping plans

Open circuit

e.g. EagleBurgmann SPA, EagleBurgmann SPN

Product links:

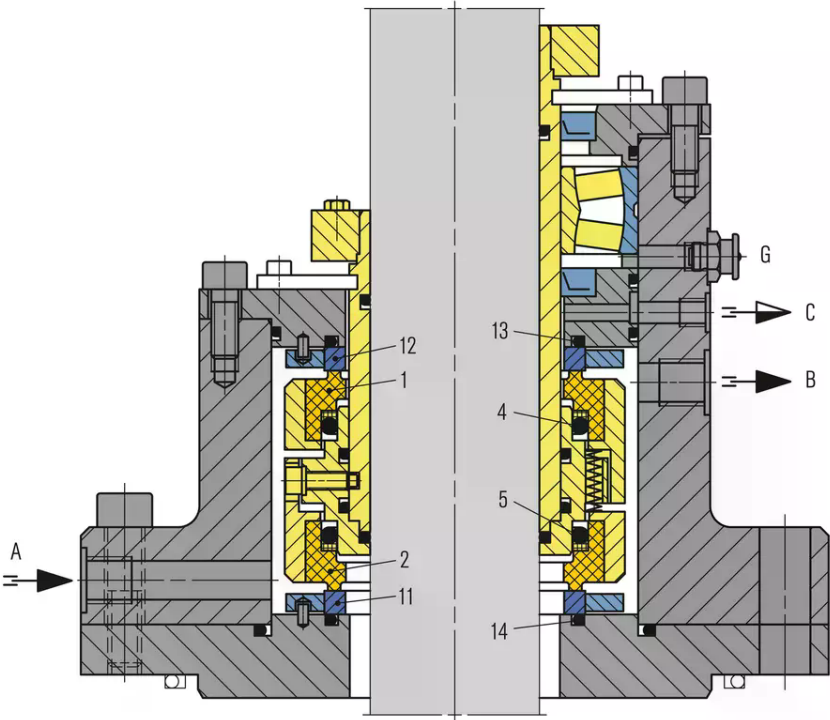
[EagleBurgmann SPA](#)

[EagleBurgmann SPN manual](#)

[EagleBurgmann SPN automatic](#)

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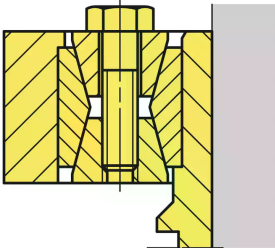
Item no.	Description
1	Seal face, atmosphere side
2	Seal face, product side
4, 5, 13, 14	O-Ring
11	Seat, product side
12	Seat, atmosphere side



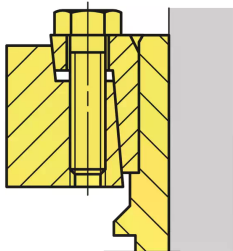
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Torque transmissions

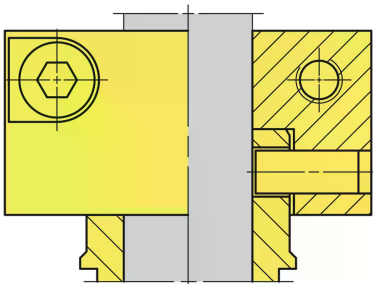
Clamping set



Shrink disk

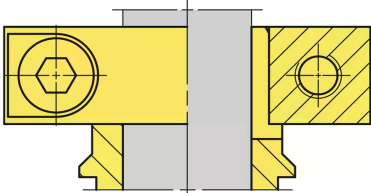


Clamping ring with pin



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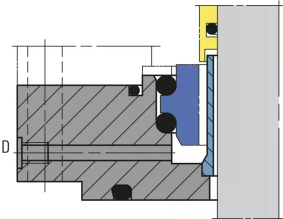
Clamping ring



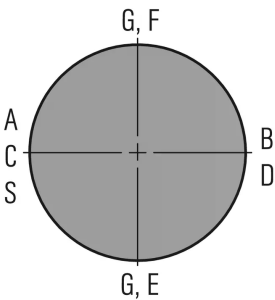
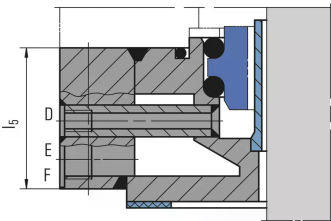
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Installation, details, options

Leakage drain
Can be used alternatively as a flush.

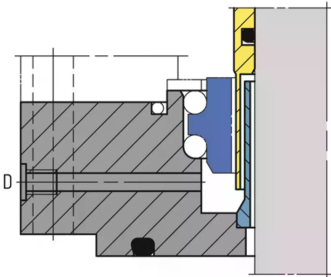


Leakage drain with cooling flange
Can be used alternatively as a flush or as a heating flange.

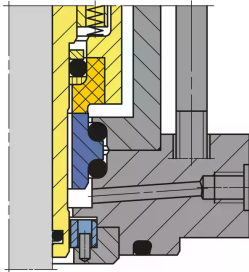


- Supply connections**
- A Barrier fluid IN
 - B Barrier fluid OUT
 - C Drainage
 - D Leakage drain
 - E Cooling IN
 - F Cooling OUT
 - G Grease
 - S Flush

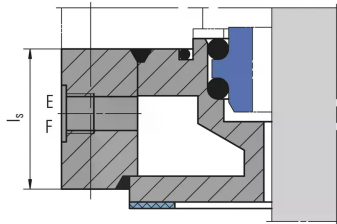
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Polymerization barrier
Can be used alternatively as a leakage drain or a flush.



Flush



Cooling flange
Can be used alternatively as a heating flange.

Product variants

HSH(V)-D
Double seal

HSH(V)L-D
Double seal with integrated floating bearing (axial thrust bearing on request).

These seals are designed to be self-closing on the product side, i.e. they will remain closed even with pressure variations or a pressure reversal.